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Attorney Docket No. 1293.1925

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Jae-seong Shim et al.

Application No.: 10/667,670

Group Art Unit: 2819

Filed: September 23, 2003

Examiner: Patrick G. Wamsley

For: DATA MODULATING METHOD AND APPARATUS, DATA DEMODULATING METHOD AND APPARATUS, AND CODE ARRANGING METHOD

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:
 - 1a. ☒ Form PTO-1449.
 - 1b. ☒ Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications.
 - 1c. ☐ English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
 - 1d. ☒ English language translation (Abstract Only) attached to non-English language publications as indicated on the attached Form PTO-1449.
 - 1e. ☒ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
 - 1f. ☐ List of Copending Applications (ATTACHMENT 1(f), hereto).
 - 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).
2. ☒ This Information Disclosure Statement is filed under 37 CFR § 1.97(i) and/or 37 CFR § 1.501 to be placed at least in the file.
3. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

4. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 503333.

Respectfully submitted,

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1293.1925	APPLICATION NO. 10/667,670
LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		FIRST NAMED INVENTOR Jae-seong Shim et al.	
		FILING DATE September 23, 2003	GROUP ART UNIT 2819

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	6,268,810 B1	07/2001	Shim et al.			
	AB	6,281,815 B1	08/2001	Shim et al.			
	AC	2002/0060634 A1	05/2002	Shim			
	AD	6,654,425 B1	11/2003	Kunisa et al.			
	AE	6,781,527 B2	08/2004	Shim et al.			
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO		ABSTRACT
	AG	WO98/17005	04/1998	WIPO			X
	AH	JP 2000-286710	10/2000	Japan			X
	AI	JP 2000-339871	12/2000	Japan			X
	AJ	JP 2002-135121	05/2002	Japan			X
	AK	JP 2003-032120	01/2003	Japan			X
	AL						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

					TRANSLATION YES NO	
	AM	Japanese Office Action issued in Japanese Patent Application No. 2003-336173 on January 10, 2006.				

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**ATTACHMENT 1(e)**

EXPLANATIONS OF RELEVANCY OF REFERENCES	ATTORNEY DOCKET NO.	APPLICATION NO.
	1293.1925	10/667,670
	FIRST NAMED INVENTOR	
	Jae-seong Shim et al.	
	FILING DATE	GROUP ART UNIT
	September 23, 2003	2819

* Reference AA (U.S. Patent No. 6,268,810 B1) corresponds to reference AH (Japanese Patent Publication No. 2000-286710).

* Reference AB (U.S. Patent No. 6,281,815 B1) corresponds to reference AI (Japanese Patent Publication No. 2000-339871).

* Reference AC (U.S. Patent Publication No. 2002/0060634 A1) corresponds to reference AJ (Japanese Patent Publication No. 2002-135121).

* Reference AD (U.S. Patent No. 6,654,425 B1) corresponds to reference AG (WIPO Publication No. 98/17005).

* Reference AE (U.S. Patent No. 6,781,527 B2) corresponds to reference AK (Japanese Patent Publication No. JP 2003-032120).